

The Science of the Total Environment VOL (1994) 271

## Author index

Al-Jubair, A.H. 173 Al-Tayaran, A. 173 Azmon, E. 235

Barratt, R.S. 157

Cecchi, R. 163 Costa, F. 163

de Brouwer, S. 183 Delmas, R.J. 17

Ehhalt, E.H. 1 El-Din, M.N.A. 173 Ellis, D.D. 261

Feng, Y. 157 Fleischer, G. 141 Frielinghaus, M. 63 Galka, C. 261 Gamberg, M. 221 Ghermandi, G. 163 Gilbert, J. 103 Gomaa, A. 173

Hackl, A.E. 131 Harrison, J.D. 211 Hopke, P.K. 245 Hüttl, R.F. 63

Kroeze, C. 193

Larson, R.A. 261

Madany, I.M. 173 Mercier, C. 75 Myttenaere, C. 183

Naylor, G.P.L. 211

Oddy, W.A. 121 Offer, Z.Y. 235

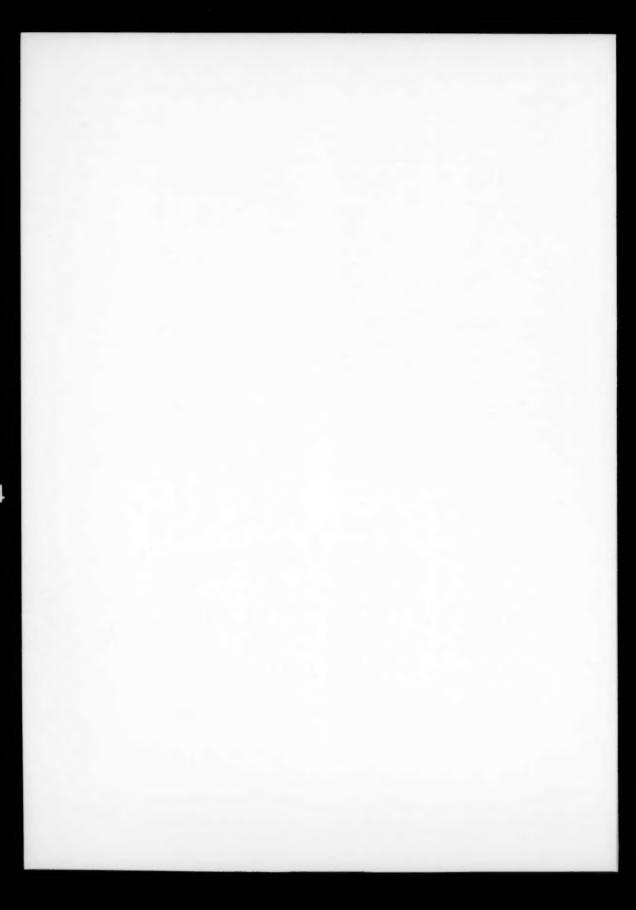
Piacenti, F. 113 Psenner, R. 53

Scheuhammer, A.M. 221 Schlatter, C. 93 Schweizer, F. 127 Shapiro, A. 75 Simionato, F. 163 Sinyak, Y. 31 Stather, J.W. 211

Thiry, Y. 183

von Weizsäcker, E.U. 149

Zeng, Y. 245 Zonta, R. 163



## Subject index

Acid decomposition, long-range transport, potential source contribution function, 245

Acid load, nutrient load, eutophication, acidification, freshwater, high altitude Alpine lakes, anthropogenic impacts. 53

Acidification, nutrient load, eutophication, acid load, freshwater, high altitude Alpine lakes, anthropogenic impacts, 53

Agriculture, soil fertility, soil compaction, erosion, water logging, forestry, soil acidification, nutrient loss, Germany, 63

Air, water and food contamination, xenobiotics, inorganic acid anhydrides, ozone, photochemical smog, lead, polycyclic aromatic compounds, 93

Air pollution, control techniques, improvements, transfer of knowledge, greenhouse gases, dioxins/furans, ozone, hydrocarbon, 131

Airborne dust, storm, chemistry, mineralogy, Negev desert, 235
Americium, plutonium, gut transfer, gastrointestinal absorption. Maralinga. 211

Ammonium, groundwater, pollution, nitrate, faecal coliforms, total dissolved salts. Saudi Arabia. 173

Antartica, ice cores, Greenland, paleoclimatology, atmospheric chemistry, 17

Anthropogenic impacts, nutrient load, eutophication, acid load, acidification, freshwater, high altitude Alpine lakes, 53

Archaeology, conservation, museum, polymers, chemistry, 121 Archaeology, metals, corosion, chemistry, 127

Aromatic hydrocarbons, dioxins, polychlorinated biphenyls, phthalates, volatile halocarbons, 103

Atmospheric chemistry, ice cores, Antartica, Greenland, paleoclimatology, 17

Cadmium, caribou, copper, metallothionein, muskoxen, zinc,

Cadmium, dust, lead, microwave oven, digestion, 157

Carbonate, incineration, free radicals, quenching, 261

Caribou, cadmium, copper, metallothionein, muskoxen, zinc,

Certification system, food safety, food risk hazards, raw materials, technology processes, packaging and food safety, quality assurance, 75

Chemical aspects, stone degradation, conservation procedures, restoration materials, 113

Chemistry, airborne dust, storm, mineralogy, Negev desert, 235

Chemistry, archaeology, metals, corosion, 127

Chemistry, conservation, archaeology, museum, polymers, 121 CO<sub>2</sub> emissions, energy senario, global warming, final energy, primary energy mix, 31

Conservation, archaeology, museum, polymers, chemistry, 121Conservation procedures, stone degradation, restoration materials, chemical aspects, 113

Control techniques, air pollution, improvements, transfer of knowledge, greenhouse gases, dioxins/furans, ozone, hydrocarbon. 131

Copper, cadmium, caribou, metallothionein, muskoxen, zinc, 221

Corosion, archaeology, metals, chemistry, 127

Digestion, dust, lead, cadmium, microwave oven, 157

Dioxins, aromatic hydrocarbons, polychlorinated biphenyls, phthalates, volatile halocarbons, 103

Dioxins/furans, air pollution, control techniques, improvements, transfer of knowledge, greenhouse gases, ozone, hydrocarbon, 131

Dust, lead, cadmium, microwave oven, digestion, 157

Ecological limits of recycling, raw materials, manufacturing residues, waste products and materials, product design and recycling needs, 141

Emission target, N<sub>2</sub>O, nitrous oxide, greenhouse effect, 193 Energy productivity, green taxes, sustainable development, 149 Energy senario, global warming, CO<sub>2</sub> emissions, final energy, primary energy mix, 31

Environment, heavy metals, filtration, fresh water, 163

Erosion, soil fertility, agriculture, soil compaction, water logging, forestry, soil acidification, nutrient loss, Germany, 63

Eutophication, nutrient load, acid load, acidification, freshwater, high altitude Alpine lakes, anthropogenic impacts, 53

Faecal coliforms, groundwater, pollution, nitrate, ammonium, total dissolved salts, Saudi Arabia, 173

Filtration, heavy metals, fresh water, environment, 163

Final energy, energy senario, global warming, CO<sub>2</sub> emissions, primary energy mix, 31

Food risk hazards, food safety, raw materials, technology processes, packaging and food safety, quality assurance, certification system, 75

Food safety, food risk hazards, raw materials, technology pro-

cesses, packaging and food safety, quality assurance, certification system, 75

Forest brown acid soil, radiocaesium, 183

Forestry, soil fertility, agriculture, soil compaction, erosion, water logging, soil acidification, nutrient loss, Germany, 63 Free radicals, incineration, quenching, carbonate, 261

Fresh water, heavy metals, filtration, environment, 163

Freshwater, nutrient load, eutophication, acid load, acidification, high altitude Alpine lakes, anthropogenic impacts, 53

Gastrointestinal absorption, plutonium, americium, gut transfer, Maralinga, 211

Germany, soil fertility, agriculture, soil compaction, erosion, water logging, forestry, soil acidification, nutrient loss, 63 Global warming, energy senario, CO<sub>2</sub> emissions, final energy.

primary energy mix, 31

Green taxes, energy productivity, sustainable development, 149 Greenhouse effect,  $N_2O$ , nitrous oxide, emission target, 193

Greenhouse gases, air pollution, control techniques, improvements, transfer of knowledge, dioxins/furans, ozone, hydrocarbon, 131

Greenland, ice cores, Antartica, paleoclimatology, atmospheric chemistry, 17

Groundwater, pollution, nitrate, ammonium, faecal coliforms, total dissolved salts, Saudi Arabia, 173

Gut transfer, plutonium, americium, gastrointestinal absorption, Maralinga, 211

Heavy metals, filtration, fresh water, environment, 163

High altitude Alpine lakes, nutrient load, eutophication, acid load, acidification, freshwater, anthropogenic impacts, 53

Hydrocarbon, air pollution, control techniques, improvements, transfer of knowledge, greenhouse gases, dioxins/furans, ozone, 131

Hydroxyl radical, photochemical oxidation, removal of atmospheric gaseous pollutants, self-cleansing of the troposphere,

Ice cores, Antartica, Greenland, paleoclimatology, atmospheric chemistry, 17

Improvements, air pollution, control techniques, transfer of knowledge, greenhouse gases, dioxins/furans, ozone, hydrocarbon, 131

Incineration, free radicals, quenching, carbonate, 261

Inorganic acid anhydrides, air, water and food contamination, xenobiotics, ozone, photochemical smog, lead, polycyclic aromatic compounds, 93

Lead, air, water and food contamination, xenobiotics, inorganic acid anhydrides, ozone, photochemical smog, polycyclic aromatic compounds, 93

Lead, dust, cadmium, microwave oven, digestion, 157

Long-range transport, acid decomposition, potential source contribution function, 245

Manufacturing residues, raw materials, waste products and materials, Ecological limits of recycling, product design and recycling needs, 141 Maralinga, plutonium, americium, gut transfer, gastrointestinal absorption, 211

Metallothionein, cadmium, caribou, copper, muskoxen, zinc,

Metals, archaeology, corosion, chemistry, 127

Microwave oven, dust, lead, cadmium, digestion, 157

Mineralogy, airborne dust, storm, chemistry, Negev desert, 235
Museum, conservation, archaeology, polymers, chemistry, 121
Muskoxen, cadmium, caribou, copper, metallothionein, zinc.

221

N<sub>2</sub>O, nitrous oxide, greenhouse effect, emission target, 193 Negev desert, airborne dust, storm, chemistry, mineralogy, 235 Nitrate, groundwater, pollution, ammonium, faecal coliforms, total dissolved salts. Saudi Arabia, 173

Nitrous oxide, N<sub>2</sub>O, greenhouse effect, emission target, 193 Nutrient load, eutophication, acid load, acidification, freshwater, high altitude Alpine lakes, anthropogenic impacts. 53

Nutrient loss, soil fertility, agriculture, soil compaction, erosion, water logging, forestry, soil acidification, Germany, 63

Ozone, air, water and food contamination, xenobiotics, inorganic acid anhydrides, photochemical smog, lead, polycyclic aromatic compounds, 93

Ozone, air pollution, control techniques, improvements, transfer of knowledge, greenhouse gases, dioxins/furans, hydrocarbon, 131

Packaging and food safety, food safety, food risk hazards, raw materials, technology processes, quality assurance, certification system. 75

Paleoclimatology, ice cores, Antartica, Greenland, atmospheric chemistry, 17

Photochemical oxidation, hydroxyl radical, removal of atmospheric gaseous pollutants, self-cleansing of the troposphere, I

Photochemical smog, air, water and food contamination, xenobiotics, inorganic acid anhydrides, ozone, lead, polycyclic aromatic compounds, 93

Phthalates, aromatic hydrocarbons, dioxins, polychlorinated biphenyls, volatile halocarbons, 103

Plutonium, americium, gut transfer, gastrointestinal absorption, Maralinga, 211

Pollution, groundwater, nitrate, ammonium, faecal coliforms, total dissolved salts. Saudi Arabia. 173

Polychlorinated biphenyls, aromatic hydrocarbons, dioxins, phthalates, volatile halocarbons, 103

Polycyclic aromatic compounds, air, water and food contamination, xenobiotics, inorganic acid anhydrides, ozone, photochemical smog, lead, 93

Polymers, conservation, archaeology, museum, chemistry, 121Potential source contribution function, acid decomposition, long-range transport, 245

Primary energy mix, energy senario, global warming, CO<sub>2</sub> emissions, final energy, 31

Product design and recycling needs, raw materials, manufacturing residues, waste products and materials, Ecological limits of recycling, 141 Quality assurance, food safety, food risk hazards, raw materials, technology processes, packaging and food safety, certification system. 75

Quenching, incineration, free radicals, carbonate, 261

Radiocaesium, forest brown acid soil, 183

Raw materials, food safety, food risk hazards, technology processes, packaging and food safety, quality assurance, certification system, 75

Raw materials, manufacturing residues, waste products and materials, Ecological limits of recycling, product design and recycling needs, 141

Removal of atmospheric gaseous pollutants, hydroxyl radical, photochemical oxidation, self-cleansing of the troposphere,

Restoration materials, stone degradation, conservation procedures, chemical aspects, 113

Saudi Arabia, groundwater, pollution, nitrate, ammonium, faecal coliforms, total dissolved salts, 173

Self-cleansing of the troposphere, hydroxyl radical, photochemical oxidation, removal of atmospheric gaseous pollu-

Soil acidification, soil fertility, agriculture, soil compaction, erosion, water logging, forestry, nutrient loss, Germany, 63

Soil compaction, soil fertility, agriculture, erosion, water logging, forestry, soil acidification, nutrient loss, Germany, 63

Soil fertility, agriculture, soil compaction, erosion, water logging, forestry, soil acidification, nutrient loss, Germany, 63 Stone degradation, conservation procedures, restoration materials, chemical aspects, 113

Storm, airborne dust, chemistry, mineralogy, Negev desert, 235 Sustainable development, green taxes, energy productivity, 149

Technology processes, food safety, food risk hazards, raw materials, packaging and food safety, quality assurance, certification system, 75

Total dissolved salts, groundwater, pollution, nitrate, ammonium, faecal coliforms, Saudi Arabia, 173

Transfer of knowledge, air pollution, control techniques, improvements, greenhouse gases, dioxins/furans, ozone, hydrocarbon, 131

Volatile halocarbons, aromatic hydrocarbons, dioxins, polychlorinated biphenyls, phthalates, 103

Waste products and materials, raw materials, manufacturing residues, Ecological limits of recycling, product design and recycling needs, 141

Water logging, soil fertility, agriculture, soil compaction, erosion, forestry, soil acidification, nutrient loss, Germany, 63

Xenobiotics, air, water and food contamination, inorganic acid anhydrides, ozone, photochemical smog, lead, polycyclic aromatic compounds, 93

Zinc, cadmium, caribou, copper, metallothionein, muskoxen, 221